

Appln No. 10/760199
Amdt. Dated: January 16, 2007
Response to Office Action of September 7, 2006

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A self threading printer for producing rolls of wallpaper, comprising:
a media loading area adapted to support a media cartridge in a position so that a media supply slot of the cartridge is closely adjacent to a media guide;
a cabinet housing a media path which extends from the media guide to a printed media dispensing slot;

a printhead located across the media path, the printhead being mounted on a rail on which it slides into and out of a printing position across the media path;
a processor which accepts operator inputs which are used to configure the printer for producing a particular roll;

a motor within the cabinet for advancing a media web out of the media cartridge; and
one or more other motors adapted to urge the media along the path and out of the slot; and
a well, external to the cabinet and adjacent to a printed media dispensing slot, the well having at each end, spindles for aligning, retaining and removing a core, at least one spindle being motorized to rotate the core.
2. (Original) The printer of claim 1, further comprising:
a slitting mechanism in the cabinet adapted to longitudinally slit the media web, to different widths, as required and in accordance with instructions provided by a user.
3. (Original) The printer of claim 1, further comprising:
a curing mechanism located between the printhead and the slot and adapted to divide with a transverse cut, the media web in accordance with instructions provided by the processor.
4. (Original) The printer of claim 1, further comprising:
an internal dryer, the dryer located between the printhead and the slot and adapted to blow hot air onto a printed web.
5. (Original) The printer of claim 1, wherein:
the motor is responsive to the processor.
6. (Cancelled)
7. (Original) The printer of claim 1, further comprising:
on a front exterior surface of the cabinet, a video display for displaying information about wallpaper that the printer may print.

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8. (Original) The printer of claim 7, wherein:
the video display is a touchscreen which can receive operator selections for use by the processor.
9. (Original) The printer of claim 1, wherein:
the media cartridge resides in the loading area with a handle accessible through a service door which provides access to the area.
10. (Original) The printer of claim 9, wherein:
the media cartridge loading area further comprises one or more empty locations where a media cartridge can be stored.
11. (Cancelled)
12. (Previously Presented) The printer of claim 1, wherein:
the printhead is a multi-color printhead which is supplied by separate ink reservoirs, the reservoirs connected to the printhead by a number of ink supply tubes, there being a tube disconnect coupling between the reservoirs and the printhead.
13. (Previously Presented) The printer of claim 1, further comprising:
an air supply and a tube for bringing a supply of air to the printhead which supply prevents media from sticking to the printhead.
14. (Previously Presented) The printer of claim 1, further comprising:
a capper motor, the capper motor driving a capping device;
the capping device sealing the printhead with a cap when not in use, in order to prevent contamination from entering the printheads.
15. (Original) The printer of claim 14, wherein:
the capper device further comprises a bloter, which moves into and out of position and which is used for absorbing ink fired from the printheads.
16. (Previously Presented) The printer of claim 1, further comprising:
one or more rail microadjusters for accurately adjusting a gap between the printhead and the media onto which it is printing.
17. (Original) The printer of claim 1, wherein:
the path comprises a generally straight path.
18. (Original) The printer of claim 1, further comprising:
a pre-heater platen located under the path and before the printhead.

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19. (Original) The printer of claim 2, further comprising:
a door which covers an opening into a lower compartment of the dryer;
the door being moveable from a closed position which covers the opening, to an open position in which the media passes through the opening into the lower compartment and out of the compartment, also through the opening.
20. (Original) The printer of claim 19, wherein:
the media in the lower compartment forms a catenary path in the compartment.
21. (Original) A self threading printer as claimed in claim 1 wherein the media web is printed by the printhead at a rate exceeding 0.02 square meters per second (775 square feet per hour).
22. (Original) A self threading printer as claimed in claim 1 wherein the media web is printed by the printhead at a rate exceeding 0.1 square meters per second (3875 square feet per hour).
23. (Original) A self threading printer as claimed in claim 1 wherein the media web is printed by the printhead at a rate exceeding 0.2 square meters per second (7750 square feet per hour).
24. (Original) A self threading printer as claimed in claim 1 wherein the printhead has more than 7680 nozzles.
25. (Original) A self threading printer as claimed in claim 1 wherein the printhead has more than 20,000 nozzles.
26. (Original) A self threading printer as claimed in claim 1 wherein the printhead has more than 100,000 nozzles.
27. (Original) A self threading printer as claimed in claim 1 wherein the printhead has more than 250,000 nozzles.
28. (Original) A self threading printer as claimed in claim 1 wherein the printhead prints ink drops with a volume of less than 5 picoliters.
29. (Original) A self threading printer as claimed in claim 1 wherein the printhead prints ink drops with a volume of less than 3 picoliters.
30. (Original) A self threading printer as claimed in claim 1 wherein the printhead prints ink drops with a volume of less than 1.5 picoliters.
31. (Original) A self threading printer as claimed in claim 1 wherein it is self contained and comprises:

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a cabinet in which is located a media path which extends from a media cartridge loading area to a winding area;

a full width digital color printhead located in the media path;

a processor which accepts operator inputs which are used to configure the printer for producing a particular roll; and

the winding area adapted to removably retain a core and wind onto it, wallpaper produced by the printer.

32. (Original) A self threading printer as claimed in claim 1 adapted for use with a media cartridge, the media cartridge comprising:

a case in which a roll of blank media may be deployed;

the case having two halves, hinged together, an area between the two halves, when closed, defining a media supply slot; and

the case having internally and adjacent to the slot, a pair of rollers, at least one of the rollers being a driven roller which is supported at each end, by the case, for rotation by an external motor.

33. (Original) A self threading printer as claimed in claim 1 adapted for use with a consumer tote for a roll of wallpaper, the tote comprising:

a disposable exterior in which is formed a main access flap and a pair of core access openings; and

the tote having an interior in which is located a disposable core which is aligned with the access openings.

34. (Original) A self threading printer as claimed in claim 1 including a transverse cutter, the transverse cutter comprising:

a chassis having end plates;

the end plates being separated to allow a web of media to pass between them;

the end plates supporting between them a cutting blade; and

the blade supported at each end to perform a cutting motion which begins on one side of the web and finishes on an opposite side of the web.

35. (Original) A self threading printer as claimed in claim 1 including a slitting mechanism, the slitting mechanism comprising:

a chassis having end plates;

the end plates being separated by a transverse portion of the chassis to allow a web of media to pass between them;

one or more rotating slitting shafts extending between the end plates, each shaft having one or more slitters arranged along its length, each slitter having a cutting edge; and

the slitting mechanism selectively engageable to either enter or not enter a path followed by the web according to an input provided by an operator of the printer.

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36. (Original) A self threading printer as claimed in claim 1 including a dryer for a printer such as a wallpaper printer, the dryer comprising:

a compartment with a top opening for receiving a media web fed from the printer;

a source of heated air located above the top opening for blowing heated air into the opening to dry printing on the media web.

37. (Original) A self threading printer as claimed in claim 1 further comprising:

a cabinet in which is located a media path which extends from a media loading area to a winding area;

a printhead located in the media path;

a processor which accepts operator inputs from one or more input devices which are used to configure the printer for producing a particular roll; and

the winding area adapted to removably retain a core and wind onto it, wallpaper produced by the printer wherein,

the length and design of the roll are determined by the operator inputs.

38. (Withdrawn) A self threading printer as claimed in claim 1 adapted for use in a method of printing wallpaper onto a web of media, comprising the steps of:

utilizing an on-demand printer comprising a cabinet in which is located a media path which extends from a media loading area to a winding area, there being a printhead located in the media path, a processor which accepts operator inputs from one or more input devices;

using one or more input devices which communicate with the processor to capture data from an operator regarding a specification for an operator's requirements;

using the processor to operatively control the printer according to the data; and

printing a single roll of wallpaper, on demand, according to a selected pattern.

39. (Withdrawn) A self threading printer as claimed in claim 1 for use in a method for operating a wallpaper printing business, the method comprising the steps of:

utilizing an on-demand printer comprising a cabinet in which is located a media path which extends from a media loading area to a printhead and from the printhead to a dispensing slot;

using one or more printer input devices which communicate with a processor to capture data regarding one or more customer's requirements;

the data comprising at least a customer selected pattern;

printing a roll of wallpaper, onto a web of blank media, on demand, according to the selected pattern;

and

charging a customer for the roll.

40. (Withdrawn) A self threading printer as claimed in claim 1 for use in a method for operating a wallpaper printing franchise, comprising the steps of:

providing to franchisees, an on-demand printer comprising a cabinet in which is located a media path which extends from a media loading area to a printhead and from the printhead to a dispensing slot;